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Lin et al USSN 09/821,291 Filed March 29, 2001

This listing of claims will replace all prior versions, and listings, of claims in the application:

In The Claims:

#### **Listing of Claims**

- 1. (Currently Amended) A method of extruding structural members comprising:
  - (a) providing an alloy comprising:

about 3.6 to about 4.2 wt.% copper,

about 1.0 to about 1.6 wt.% magnesium,

about 0.3 to abut 0.8 wt.% manganese.

about 0.05 to about 0.25 wt.% zirconium,

the balance substantially aluminum, incidental elements and

impurities;

- (b) homogenizing said alloy at a temperature between to a temperature between about 855° and 880°F prior to extruding said alloy at a temperature within about 500° to about 750°F to form an extrusion;
  - (c) solution heat treating said extrusion; and
- (d) quenching said extrusion before making a structural member therefrom.
- 2. (Currently Amended) The method of claim 1 wherein the extruding temperature in step (b) is about 550° to about 650°F.
  - 3. (Currently Amended) The method of claim 1 wherein the extruding

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temperature in step (b) is about 600° to about 650°F.

- 4. (Original) The method of claim I which further includes:
  - (e) stretching said extrusion by at least about 1%.
- 5. (Currently Amended) The method of claim + 27 which further includes:
  - (e) stretching said extrusion between about 1 to about 10%.
- 6. (Currently Amended) The method of claim 4 27 which further includes:
  - (c) stretching said extrusion between about 1 to about 8%.
- 7. (Currently Amended) The method of claim + 27 which further includes:
  - (c) stretching said extrusion between about 1 to about 3%.
- 8. (Currently Amended) The method of claim 4 27 which further includes:
- (e) stretching said extrusion by at least about 1%, said extrusion having less than about 50% volume recrystallized after stretching.
- 9. (Currently Amended) The method of claim 4 27 which further includes in step (e):
- (f) (e) stretching said extrusion by at least about 1%, said extrusion being substantially unrecrystallized.
- 10. (Currently Amended) The method of claim 4 27 which further includes in step (e):
- (e) stretching said extrusion by at least about 1%; said extrusion having a longitudinal yield strength of at least about 50 ksi and a longitudinal tensile ultimate strength of at least about 70 ksi.

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- 11.-26. (Previously Cancelled).
- 27. (Currently Amended) A method of extruding structural members consisting essentially of:
  - (a) providing an alloy comprising:

about 3.6 to about 4.2 wt.% copper,

about 1.0 to about 1.6 wt.% magnesium,

about 0.3 to about 0.8 wt.% manganese,

about 0.05 to about 0.25 wt.% zirconium,

the balance substantially aluminum, incidental elements and

impurities;

- (b) extruding said alloy at a temperature [[  $\_$  ]] within about 500° to about 750° to form an extrusion;
  - (c) solution heat treating said extrusion;
- (d) quenching said extrusion before making a structural member therefrom; and
  - (e) stretching said extrusion by at least about 1%.
- 28. (Currently Amended) A method of extruding structural members having a combination of high strength and toughness, said method comprising:
  - (a) providing an alloy comprising:

about 3.6 to about 4.2 wt.% copper,

about 1.0 to about 1.6 wt.% magnesium,

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about 3.6 to about 4.2 wt.% copper,
about 1.0 to about 1.6 wt.% magnesium,
about 0.3 to about 0.8 wt.% manganese,
about 0.05 to about 0.25 wt.% zirconium,

the balance substantially aluminum, incidental elements and

impurities;

- (b) homogenizing said alloy at a temperature between to a temperature between about 855° and 880°F prior to extruding said alloy at a temperature with about 500° to about 750°F to form an extrusion;
  - (c) solution heat treating said extrusion; and
- (d) quenching said extrusion before making a structural member therefrom.